(Chel)γAbuNle<u>DHF</u><sub>d</sub> <u>RWK</u>-NH<sub>2</sub>, (SEQ ID NO:1)

(Chel)yAbuHSDAVFTDNYTRLRKQMAVKKYLNSILN-NH2, (SEQ ID NO:2)

KPRRPYTDNYTRLRK(Chel)QMAVKKYLNSILN-NH2, (SEQ ID NO:3)

(Chel)yAbuVFTDNYTRLRKQMAVKKYLNSILN-NH2,

(Chel)yAbuYTRLRKQMAVKKYLNSILN-NH2, (SEQ ID NO:4)

HSDAVFTDNYTRLRK(Chel)QMAVKKYLNSILN-NH<sub>2</sub>, (SEQ ID NO:5)

(SEQ ID NO:6) <GHWSYK(Chel)LRPG-NH<sub>2</sub>, <GHYSLK(Chel)WKPG-NH<sub>2</sub>, (SEQ ID NO:7)

AcNal<sub>d</sub> Cpa<sub>d</sub> W<sub>d</sub> SRK<sub>d</sub> (Chel)LRPA<sub>d</sub> -NH<sub>2</sub>, (SEQ ID NO:8)

(SEQ ID NO:9) (Chel)yAbuSYSNleDHFd RWK-NH2, Ac-

HSDAVFTENYTKLRK(Chel)QNleAAKKYLNDLKKGGT-NH2, (SEQ ID NO:10)

(SEQ ID NO:12) Nal<sub>d</sub> Cpa<sub>d</sub> W<sub>d</sub> SRK<sub>d</sub> (Chel)WKPG-NH<sub>2</sub>, <GHWSYK<sub>d</sub> (Chel)LRPG-NH<sub>2</sub>, (SEQ ID NO:13)

(SEQ ID NO:14) AcK(Chel)F<sub>d</sub> <u>CFW<sub>d</sub> KTC</u>T-OH, AcK(Chel)DF<sub>d</sub> <u>CFW<sub>d</sub> KTC</u>T-OH, (SEQ ID NO:15)

(SEQ ID NO:14) AcK(Chel) $F_d$  CFW $_d$  KTCT-ol, AcK(Chel)DF $_d$  CFW $_d$  KTCT-ol, (SEQ ID NO:15)

(SEQ ID NO:16) (Chel)DF<sub>d</sub>  $\underline{CFW_d}$   $\underline{KTC}$ T-OH, K(Chel)DF<sub>d</sub>  $\underline{CFW_d}$   $\underline{KTC}$ T-ol, (SEQ ID NO:15)

(SEQ ID NO:17) K(Chel)KKFd  $\underline{CFW}$ d  $\underline{KTC}$ T-ol, K(Chel)KDFd  $\underline{CFW}$ d  $\underline{KTC}$ T-OH, (SEQ ID NO:18)

(SEQ ID NO:19) K(Chel)DSF<sub>d</sub>  $\underline{CFW_d}$   $\underline{KTC}$ T-OH, K(Chel)DF<sub>d</sub>  $\underline{CFW_d}$   $\underline{KTC}$ T-OH, (SEQ ID NO:15)

(SEQ ID NO:20) K(Chel)DF<sub>d</sub>  $\underline{CFW}_d$   $\underline{KTC}$ D-NH<sub>2</sub>, K(Chel)DF<sub>d</sub>  $\underline{CFW}_d$   $\underline{KTC}$ T-NH<sub>2</sub>, (SEQ ID NO:15)

(SEQ ID NO:18) K(Chel)KDF<sub>d</sub>  $\underline{CFW}_d$   $\underline{KTC}$ T-NHNH<sub>2</sub>, AcK(Chel)F<sub>d</sub>  $\underline{CFW}_d$   $\underline{KTC}$ T-NHNH<sub>2</sub>, (SEQ ID NO:14)

(SEQ ID NO:14) K(Chel)F<sub>d</sub> <u>CFW</u><sub>d</sub> <u>KTC</u>T-ol, and F<sub>d</sub> <u>CFW</u><sub>d</sub> <u>KTC</u>TK(Chel)-NH<sub>2</sub>, (SEQ ID NO:21)

wherein (Chel) is a radiometal-binding moiety having the structure set forth above.

Com.